

WHAT IS CLAIMED IS:

1. A fastener tape comprising
 - (a) a molded resin base sheet with an array of integrally molded fastener elements extending from a first side of the base sheet; and
 - (b) a substrate permanently secured to a second side of the base sheet, the substrate comprising first and second yarns or fibers, the first yarn or fiber comprising a first polymeric material and the second yarn or fiber comprising a second, different polymeric materials, one of the polymeric materials being capable of adhesion to the resin of the base sheet.
2. The fastener tape of claim 1 wherein the first yarn or fiber predominates on a first side of the substrate, and the second yarn or fiber predominates on a second, opposite side of the substrate.
3. The fastener tape of claim 1 wherein the substrate comprises a woven, knitted or nonwoven material.
4. The fastener tape of claim 3 where the substrate comprises a woven fabric.
5. The fastener tape of claim 4 wherein the fabric is woven in a plain, twill, or satin weave, or a combination or variation of such weaves.
6. The fastener tape of claim 1 wherein the molded resin base sheet comprises polypropylene, and one of the polymeric materials comprises polypropylene.
7. The fastener tape of claim 1 or 6 wherein one of the polymeric materials is capable of adhesion to a polyurethane.
8. The fastener tape of claim 1 wherein both the first and second yarns or fibers have a denier of from about 70 to 1000.

9. The fastener tape of claim 1 or 8 wherein the first and second yarns or fibers have different deniers.

10. The fastener tape of claim 1 wherein said substrate is a nonwoven material.

11. The fastener tape of claim 1 wherein the fabric further comprises at least one magnetically attractable third yarn or fiber.

12. The fastener tape of claim 1 wherein one of the yarns or fibers is coated with polyurethane.

13. The fastener tape of claim 1 wherein one of the yarns or fibers includes an outer surface that comprises polyurethane.

14. The fastener tape of claim 1 wherein at least one surface of the substrate is coated with a coating selected to enhance adhesion.

15. The fastener tape of claim 1 wherein a surface of the substrate opposite to the surface to which the base sheet is secured is coated with a polyurethane coating.

16. An interface tape comprising:
a substrate comprising first and second yarns or fibers, the first yarn or fiber comprising a first polymeric material and the second yarn or fiber comprising a second, different polymeric material, the yarns or fibers being arranged so that the first yarn or fiber predominates on one side of the substrate and the second yarn or fiber predominates on the other side of the substrate.

17. The interface tape of claim 16 wherein the polymeric materials of the first and second yarns are selected to be capable of adhesion to, respectively, first and second polymers to be joined using the interface tape.

18. The interface tape of claim 16 wherein the substrate comprises a woven, knitted or nonwoven material.

19. The interface tape of claim 18 where the substrate comprises a woven fabric.

20. The interface tape of claim 19 wherein the fabric is woven in a plain, twill, or satin weave, or a combination or variation of such weaves.

21. The interface tape of claim 16 wherein one of the polymeric materials comprises polypropylene.

22. The interface tape of claim 16 or 21 wherein one of the polymeric materials is capable of adhesion to a polyurethane.

23. The interface tape of claim 16 wherein both the first and second yarns or fibers have a denier of from about 70 to 1000.

24. The interface tape of claim 16 or 23 wherein the first and second yarns or fibers have different deniers.

25. The interface tape of claim 16 wherein said substrate comprises a nonwoven material.

26. The interface tape of claim 16 wherein the substrate further comprises at least one magnetically attractable third yarn or fiber.

27. The interface tape of claim 16 wherein one of the yarns or fibers is coated with polyurethane.

28. The interface tape of claim 16 wherein one of the yarns or fibers includes an outer surface that comprises polyurethane.

29. The interface tape of claim 16 wherein at least one surface of the substrate is coated with a coating selected to enhance adhesion.

30. The interface tape of claim 16 wherein a surface of the substrate is coated with a polyurethane coating.

31. ~~32.~~ A method of making a molded product comprising:

(a) inserting into a mold a fastener tape comprising:

(i) a molded resin base sheet with an array of integrally molded fastener elements extending from a first side of the base sheet, and

(ii) a substrate permanently secured to a second side of the base sheet, the substrate comprising first and second yarns or fibers of two different polymeric materials, one of the polymeric materials being capable of adhesion to the resin of the base sheet,

with an exposed surface of the substrate facing a mold cavity defined by the mold; and

(b) delivering a molding material to the mold cavity.

32. ~~33.~~ The method of claim 32 wherein the molding material is a foam.

33. ~~34.~~ The method of claim 32 wherein the molded product is a seat cushion.

34. ~~35.~~ A method of making a fastener tape, the method comprising:

(a) forming a strip-form base having a top surface, a bottom surface and fastener elements extending from the top surface;

(b) forming a polymeric substrate comprising first and second yarns or fibers and having first and second surfaces; and

(c) bonding the first surface of the polymeric substrate to the bottom surface of the strip-form base.

36. The method of claim 35 wherein the first yarn or fiber predominates on the first surface of the polymeric substrate, and the second yarn or fiber predominates on a second surface of the polymeric substrate.

37. The method of claim 36 wherein the step of bonding the substrate to the strip-form base comprises:

(a) continuously introducing molten resin to a gap defined adjacent a periphery of a rotating mold roll, such that the resin forms at least a part of the strip-form base of the fastener tape at the periphery of the mold roll and fills an array of fixed fastener element cavities defined in the rotating mold roll to form the fastener elements; while

(b) continuously introducing the substrate to the resin forming the strip-form base, at a point at which the resin forming the strip-form base is disposed adjacent the periphery of the mold roll and under conditions selected to cause the first polymeric material to become permanently bonded to the resin of the strip-form base, while allowing at least a portion of the second polymeric material to be exposed;

(c) solidifying the resin; and

(d) stripping the fastener tape from the periphery of the mold roll by pulling the solidified fastener elements from their respective cavities.

38. The method of claim 35 wherein the step of bonding the substrate to the strip-form base occurs after the strip-form base is molded.

39. The method of claim 35 wherein the substrate and the strip-form base are thermally, chemically, ultrasonically or radio-frequency welded.

40. The method of claim 35 wherein the fastener elements are integrally molded with the strip-form base.

41. The method of claim 35 wherein the fastener tape is lengthwise-continuous.

42. The method of claim 41 further comprising the step of cutting the fastener tape into finite length pieces.

43. The method of claim 42 wherein the step of cutting the fastener tape into finite length pieces includes using a hot knife.

44. The method of claim 42 wherein the step of cutting the fastener tape into finite length pieces includes using a shear.

45. A fastener tape comprising

(a) a molded resin base sheet with an array of integrally molded fastener elements extending from a first side of the base sheet; and

(b) a substrate having a first surface that is permanently secured to a second side of the base sheet, the first surface comprising a first polymeric material that is capable of adhesion to the resin of the base sheet, and a second, exposed surface, the second surface comprising a second, different polymeric material that is capable of adhesion to a polymer other than the resin of the base sheet.

46. A method of bonding first and second parts that are formed of two different polymer that exhibit poor adhesion to each other, comprising

interposing between the two parts an interface tape comprising a first surface comprising a first polymeric material that is capable of adhesion to the polymer of the first part, and a second surface comprising a second, different polymeric material that is capable of adhesion to the polymer of the second part; and

bonding the first surface to the first part and the second surface to the second part.

47. The method of claim 46 wherein at least one of the parts comprises a component of a hook and loop fastener.

48. The method of claim 46 wherein the bonding step comprises insert molding.

49. The method of claim 46 wherein the two parts are bonded to the two surfaces during separate processing steps.